

ABSTRACT

There is disclosed a COS treatment apparatus for a gasified gas, in which an O₂ removal catalyst and a COS conversion catalyst located on the downstream side of a gasified gas flow with respect to the O₂ removal catalyst are provided.

Also, there is disclosed a COS treatment apparatus containing a TiO₂ catalyst that carries Cr₂O₃ or NiO.

Further, there is disclosed a COS treatment method including a first step in which O₂ is removed by the reaction with H₂S and CO, and a second step in which COS is converted to H₂S.